

Amendments to the Specification:

Please replace the paragraph beginning at page 7, line 3 with the following amended paragraph:

The membrane 48 can also be fabricated from a sintered metal disc, coated or uncoated with polymer, to achieve a similar vaporization performance. The substrate 48b 48a is comprised of one of a variety of polymer systems, including polyethylene, polypropylene, nylon, polyurethane, or other analogous polymers or composites of one or more of these polymers. The substrate 48b 48a can also be fabricated from a sintered metal form, coated or uncoated with polymer, to achieve a similar performance.

Please replace the paragraph beginning at page 7, line 9 with the following amended paragraph:

In some embodiments the material of substrate 48b 48a can have further qualities of a "sponge-like" material. An opposite surface of the substrate ~~sponge material~~ 46b is coated with a methanol-impermeable layer 48c, which can be fabricated from materials such as a cross-linked rubber, a polymer/inorganic composite, a surface treated material such as surface fluorinated high density polyethylene, or other methanol-impermeable material.

21

Change(s) applied Please replace the paragraph beginning at page 10, line ~~22~~ with the following amended
to document, paragraph:

/U.F./
3/24/2011 Referring to FIG. 4A, an example of a fuel valve ~~70~~ having an integrated vaporization-
heating unit is shown. The fuel valve ~~70~~ is illustrated as the egress 32 for the embodiment of the
cartridge 12 shown in FIG. 4 including membrane arrangement 46. The egress 32 is depicted as
~~a valve 33~~ having an integrated heating element 73. The fuel valve ~~33~~ is supported on the
cartridge wall 65 and includes the heating element 73 arranged in any one of a variety of
configurations such as disposed in the center of the valve as shown, or disposed about the
sidewalls of the valve (not shown) or integrated into the sidewalls (not shown). The heating
element is disposed to increase the rate of vaporization across the membrane 46. The valve can